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Oklahoma Geological Survey Bulletin 22. Part I, "Director's Biennial Report"; Part II, "Mineral Resources of Oklahoma and Statistics of Production from 1901 to 1914." By C. W. SHANNON.

Bulletin 13. Volcanic Dust in Oklahoma. By FRANK BUTTRAM.

The great progress in the development of the mineral resources in the state of Oklahoma in the last ten years is made clear by the following statistics:

VALUE OF MINERAL PRODUCTS OF OKLAHOMA

	1903	1913
Coal.....	\$6,386,463	\$8,542,748
Petroleum.....	142,402	59,581,948
Natural gas.....	1,000	7,436,389
Asphalt.....	28,150	91,416
Granite.....	9,030	30,678
Sandstone.....	6,500	1,010
Limestone.....	56,140	246,912
Line.....	4,800	12,160
Cement.....		1,258,676
Gypsum.....	234,621	330,416
Clay products.....	534,977	573,371
Sand and gravel.....		39,457
Lead.....		548,064
Zinc.....		1,306,368
Salt.....	2,070	259
Mineral water.....		26,231
Other products.....		5,527
Total.....	\$7,406,153	\$80,031,630

The report is accompanied by maps showing the distribution of the mineral resources in the state, as well as a map showing its physiographic divisions.

Volcanic dust has been found at widely separated localities in the state. In one place it has a thickness of 9 feet. The dust rests upon formations as young as Pliocene, and is believed to have come from sources 600 miles or more away.

R. D. S.

"A Contribution to the Optical Study of the Amphiboles." By W. E. FORD. *Am. Jour. Sci.*, XXXVII, 179-93, figs. 11.

A study with a view to correlating the optical properties of analyzed specimens with their chemical composition. Extinction angles were found